L Number	Hits	Search Text	DB	Time stamp
1	95	wittwer.in.	USPAT	2003/06/07 12:44
2	17	wittwer.in. and DNA	USPAT	2003/06/07 12:45
3	10	(wittwer.in. and DNA) and (viral or virus)	USPAT	2003/06/07 13:17
4	1	(viral or virus)and 6174670.pn.	USPAT	2003/06/07 12:50
5	215907	(viral or virus)and 6174670.pn. and "30" cycles	USPAT	2003/06/07 12:51
6	1	(viral or virus)and 6174670.pn. and "30 cycles"	USPAT	2003/06/07 12:52
7	0	(viral or virus)and 6174670.pn. and "30 cycles" and glycosylase	USPAT	2003/06/07 12:53
8	0	(viral or virus)and 6174670.pn. and "30 cycles" and uracil	USPAT	2003/06/07 12:53
9	0	(viral or virus)and 6174670.pn. and uracil$	USPAT	2003/06/07 12:54
10	0	(viral or virus)and 6174670.pn. and (sputum or urine or tissue)	USPAT	2003/06/07 12:55
11	1	(viral or virus)and 6174670.pn. and (fluid or blood)	USPAT	2003/06/07 13:05
12	1	(viral or virus)and 6174670.pn. and two adj probes	USPAT	2003/06/07 13:07
13	1	(viral or virus)and 6174670.pn. and (two adj probes or primers)	USPAT	2003/06/07 13:14
14	322	uracil adj DNA adj glycosylase	USPAT	2003/06/07 13:14
15	134	(uracil adj DNA adj glycosylase) and (pcr same control)	USPAT	2003/06/07 13:14
16	6	(uracil adj DNA adj glycosylase) same (pcr same control)	USPAT	2003/06/07 13:14
17	1	6174670.pn. and sample	USPAT	2003/06/07 13:17

Innovative Tools for Amplification

last update February 20, 2001

Website Menu
- About this website
- PCR principles
- Advantages of RAS amplification products
- Product overview
- Find the optimal product
- Application hints
- Product literature
- Ordering information
- Feedback
- Amplification Homepage

Product literature

In this section we have gathered information about PCR applications involving Roche Applied Science amplification products which has been published in our Biochemica newsletter. We also provide a list of technical tips which may be useful for your daily PCR work. To view the articles please follow the links below. All articles are in Acrobat PDF format, and must be viewed, searched, and printed with version 3.0 or higher of the free Adobe Acrobat Reader. Or while supply lasts, you can also order printed copies of the *Biochemica* issues free of charge from your local representative.

Since pure nucleic acids are crucial for successful PCR, we would also like to refer you to our Nucleic Acid Isolation and Purification Special Interest Site which contains information about how DNA and RNA templates as well as amplification products can be easily and efficiently purified.

In addition, deoxynucleotides are essential components in amplification reactions and their purity significantly influences the results. Roche Applied Science developed a special manufacturing and purification process for deoxynucleotides. Combined with a new stringent quality control procedure, the highest possible purity and functionality of these products is guaranteed allowing you to exploit the complete potential of the amplification technology. For more information, please refer to our new PCR Grade Deoxynucleotides - Additional power to perfect your PCR Experiments flyer.

Biochemica articles

Detection of Multiple Reporter Dyes in Real-time, On-line PCR Analysis with the LightCycler System.
Gregor Sanger, Cornelia Goldstein, and Rob van Miltenburg
Biochemica 2:7-11 (1999)

Mutation Detection Using Multi-color Detection on the LightCycler System
Astrid Reiser, Maria Geyer, Rob van Miltenburg, Markus Nauck, and Karim Tabiti
Biochemica 2:12-15 (1999)

The LightCycler - The Smartest Innovation for More Efficient PCR.
Biochemica 2:4-7 (1998)

Quantitative PCR by Continuous Fluorescence Monitoring of a Double Strand DNA-Specific Binding Dye.
Randy Rasmussen, Tom Morrison, Mark Herrmann, and Carl Wittwer
Biochemica 2:8-11 (1998)

Rapid Genotyping and Quantification on the LightCycler with Hybridization Probes.
Deepika de Silva, Astrid Reiser, Mark Herrimann, Karim Tabiti, and Carl Wittwer
Biochemica 2:12-15 (1998)

Use of Expand PCR System to Amplify the 16S Ribosomal Genes for the Characterization of Bacterial Communities in Soil.
Paula Leeflang and Eric Smit
Biochemica 1:16-18 (1997)

A Preliminary Report on the Detection of Phytoplasmas by PCR.
J. Kummert and G. Rufflard
Biochemica 1:19-22 (1997)

Efficient and Accurate PCR Amplification and Detection of a Recombinant Gene in DNA Directly Extracted from Soil Using the ExpandTM High Fidelity PCR System

and T4 Gene 32 Protein.
Frank Schwieger and Christoph C. Tebbe
Biochemica 2:21-23 (1997)

A Rapid and Reliable PCR Based Method for Detecting the Blood Coagulation Factor V Leiden Mutation.
Michael Schmid and Gunnar Schalasta
Biochemica 3:12 (1997)

Detection of Tumor Associated Antigen Gene Expression in Peripheral Blood by RT-PCR with the mRNA Isolation Kit for Blood/Bone Marrow.
C. Noppen, U. Luscher, M. Zuber, G. C. Spagnoli, and C. Schaefer
Biochemica 4:11 (1997)

Polymorphism in the Bovine DRA Gene Detected by PCR-RFLP with the Expand PCR System.
G. C. Russell and A. Gallagher
Biochemica 1:34-36 (1996)

Amplification of a 20.7 kb Region of the Factor VIII Gene Using the Expand PCR System and Application of this Methodology in Detecting Large Deletions that Cause Haemophilia A.
Nell S. van de Water, Ruth Williams and Peter J. Browett
Biochemica 2:11-12 (1996)

Application of Heat-labile Uracil-DNA Glycosylase In an Improved Carry Over Prevention Technique.
M. Schmidt, B. Frey, K. Kaluza, and H. Sobek
Biochemica 2:13-15 (1996)

Use of the Expand PCR System to Complete the Telomeres for the Yeast Genome Project.
Edward Louis
Biochemica 3:25-26 (1995)

Use of the Expand Long Template PCR System in Genotyping for Polymorphisms in the Human Cytochrome P450 CYP2D6 Gene.
Ann K. Daly and Annette Steward
Biochemica 4:31-32 (1995)

Detection of Growth Hormone Receptor mRNA Using RT In Situ PCR on Frozen Sections of Rat Pituitary.
Brice Ronsin, Christine Brisson, Hichem Claude Mertani, Beatrice Grandclement, and Gerard Morel
Biochemica 4:33-36 (1995)

Technical tips

Analysis of the Human Homologue of Yeast Nucleosome Assembly Protein (hNAP2) in Wilms' Tumors, Using the Titan One Tube RT-PCR System.
Dirk Prawitt
Biochemica 1:24 (1998)

Highly Accurate Qantification of mRNA Expression by Means of Titan One Tube RT-PCR and Capillary Electrophoresis.
B. Schummer, S. Hauptfleisch, M. Siegsmund, M. Schummer, and B. Lemmer
Biochemica 2:31-33 (1998)

Blunt End Cloning of PCR Fragments Using a New Positive-selection Vector.
Daniel Schlieper, Manfred Schmidt, Harald Sobek, and Brigitte von Wilcken-Bergmann
Biochemica 2:34-35 (1998)

Quantification of Human Cytokine mRNAs by Competitive RT-PCR.
M. Greif, R. Hockett, and H. Sobek
Biochemica 2:36-37 (1998)

Optimizing PCR-labeling and Hybridization Conditions Result in Extremely Fast, High Quality, Chemiluminescent DNA Fingerprints.
Graeme J. Gisssing, Teresa J. Crease, and John McA. Eadle

Biochemica 1:23-24 (1997)

Activity of Restriction Enzymes in a PCR Mix.
Andreas Blanck, Barbara Gluck, Regina Warbichler, Susanne Bender, Markus Poll, and Andrea Brandl
Biochemica 3:25 (1997)

Isolation of the Full Length cDNA Mouse Homologue of Human RPGR Using the Titan One Tube RT-PCR System.
K. L. Dry
Biochemica 4:25 (1997)

Optimization of the RT-PCR Method by Use of the Titan One Tube RT-PCR System.
Kristen Delp, Dirk Jung, and Barbara Seliger
Biochemica 4:27 (1997)

Use of Expand High Fidelity for Differential Display.
K. V. Phenix, C. R. Irwin, G J. Linden, and J. J. Marley
Biochemica 3:31-32 (1996)

Variation of CGG Repeats at the Fragile X Site: Clear Signal Enhancement Using Expand Long Template.
Pascale Hilbert and Michel Sabine
Biochemica 4:28 (1996)

Demonstration of the Expand PCR System's Greater Fidelity and Higher Yields with a lacI-based PCR Fidelity Assay.
Bruno Frey and Bernhard Suppmann
Biochemica 2:8-9 (1995)

Use of the Plant DNA Isolation Kit to Quickly Purify High Molecular Weight DNA for Subsequent Amplification with the Expand High Fidelity PCR System.
Kim Colvin, Cathy Tex, Neil Balgobin, Hildegund Kübler and Bruno Frey
Biochemica 3:12-13 (1995)

Amplification of a 16 kb Gene Region from Insect Genomic DNA with the Expand Long Template PCR System.
Bernd Weil, Thomas Hankeln, and Erwin R. Schmidt
Biochemica 3:14 (1995)

Amplification of Fragments up to 7.7 kb from Human Dystrophin RNA by RT-PCR with AMV Reverse Transcriptase and the Expand Long Template PCR System.
Gundl Kübler and Bruno Frey
Biochemica 3:15-16 (1995)

Application of the High Pure PCR Product Purification Kit for Efficient, Convenient Purification of PCR Products.
Michael Fritz, Lis Bützer, Harald Sobek, Barbara Ruger, Manfred Schmidt, and Thomas Walter
Biochemica 4:22-24 (1995)

Amplification of the Human Glutathione s-transferase-pi cDNA from a lgt11 cDNA Library with the Expand Long Template PCR System.
Francis Ali-Osman and Olaniké Akande
Biochemica 4:28 (1995)

Amplification of a GC-rich Template Out of Plasmid DNA.
Hildegund Kübler and Bruno Frey
Biochemica 4:28 (1995)

RT-PCR with Expand Long Template.
Pierre Zalloua
Biochemica 4:29 (1995)

Amplification and DIG-labeling of a Cloned Fragment With GC-rich Triple Repeats Out of a Vector with Taq DNA Polymerase or the Expand High Fidelity PCR System.
Gregor Sagner, Maria Hartl, and Bruno Frey
Biochemica 4:30 (1995)